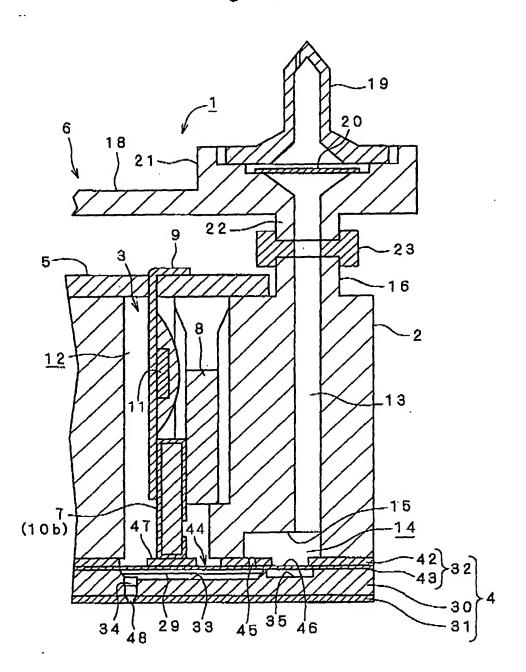
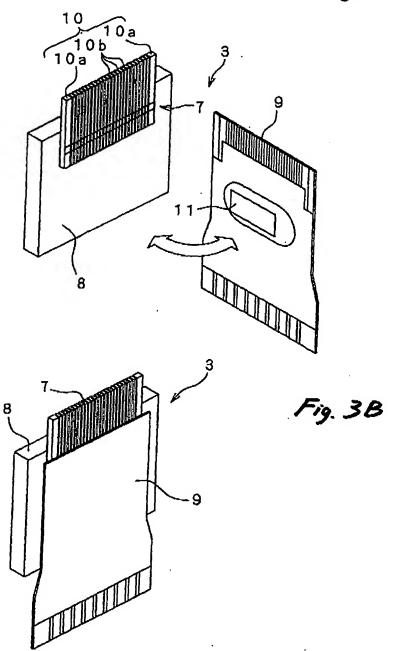


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic
1 of 12



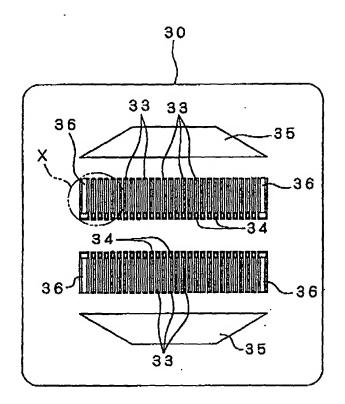
Fujio AKAHANE, et al. Q77091 FORGING PUNCH, METHOD OF MANUFACTURING LIQUID EJECTION HEAD... Date Filed: August 21, 2003 Darryl Mexic (202) 293-7060 2 of 12

Fig. 3A

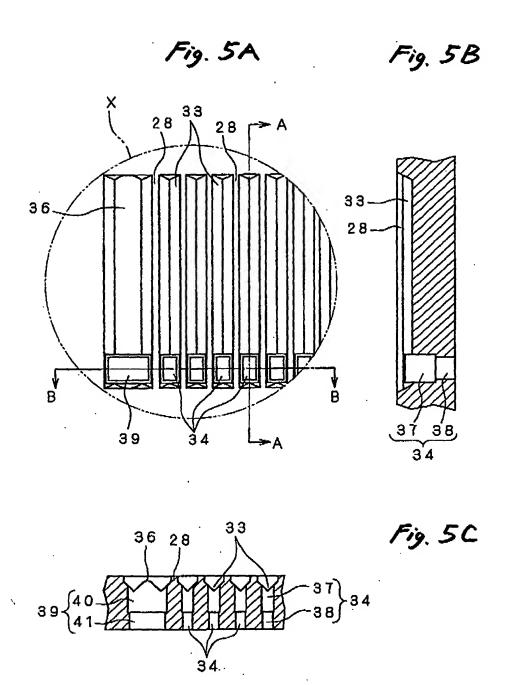


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
3 of 12

Fig. 4

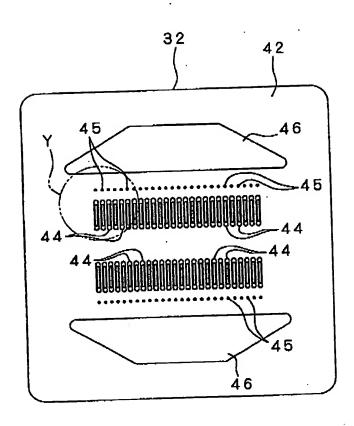


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
4 of 12



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
5 of 12

Fig. 6



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
6 of 12

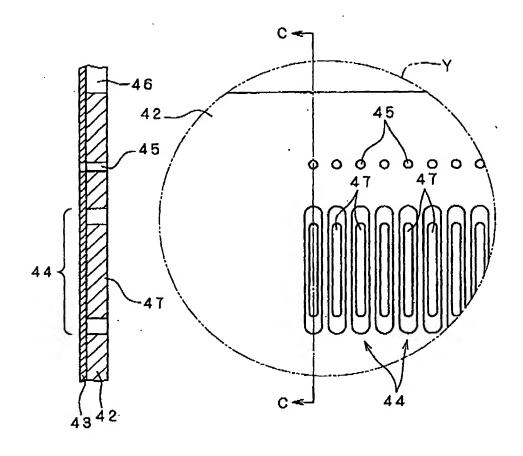
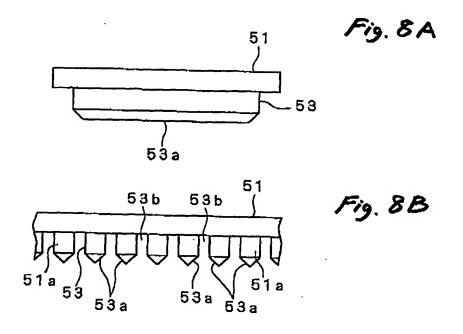
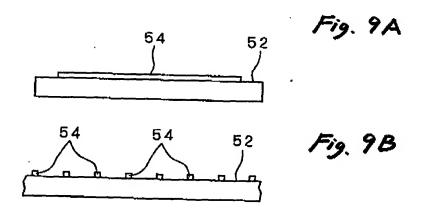


Fig. 7B

Fig. 7A

Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
7 of 12





Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
8 of 12

53b 53b 53b 51 51 55 52

54

Fig. 10A

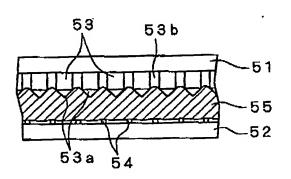


Fig. 10B

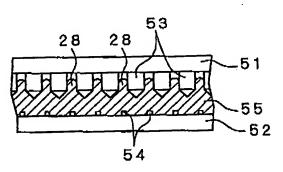
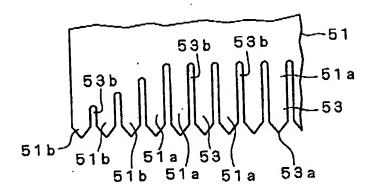


Fig. 10C



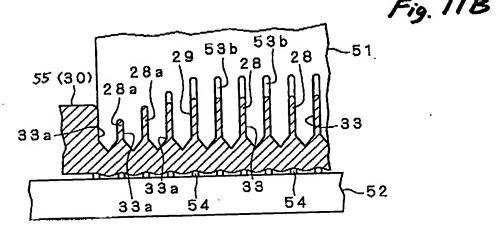
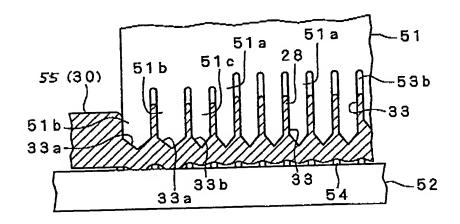
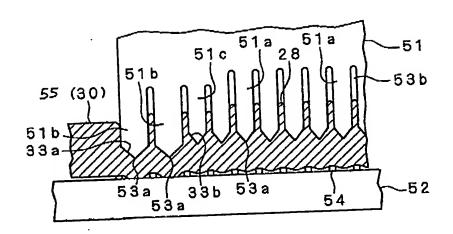
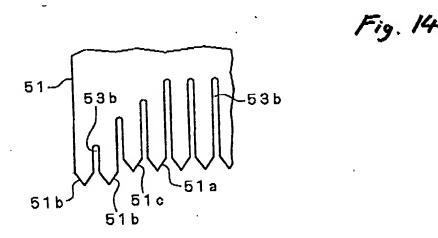


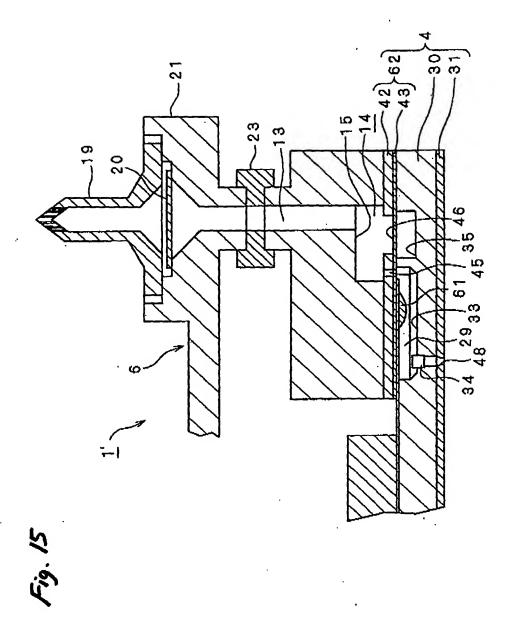
Fig. 12



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
10 of 12







Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
12 of 12